

FIG. 3

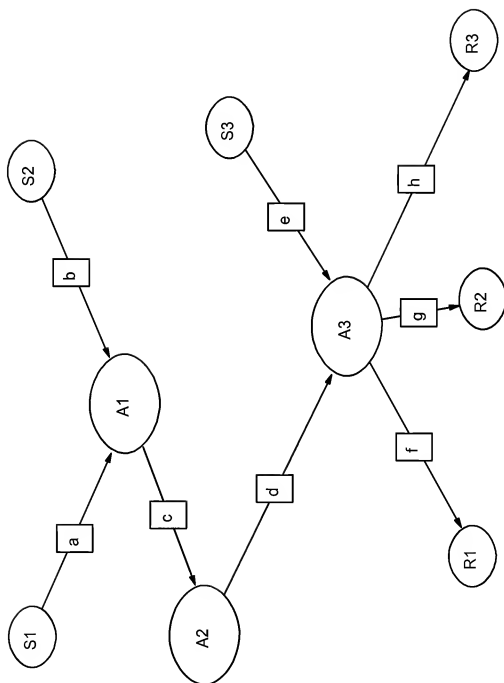


FIG. 4

400 Probes  $P = \{a, b, c, d, e, f, g, h\}$   
 410 KPI =  $\{\Delta ca, \Delta cb, \Delta dc, \Delta fd, \Delta fe, \Delta gd, \Delta ge, \Delta hd, \Delta he, \Delta at, \Delta bt, \Delta et\}$  ( $t$  = initial time)  
 420 Collaboration  $C = \{(S1, A1), (S2, A1), (A1, A2), (A2, A3), (S3, A3), (S1, A1, A2), (S2, A1, A2), (A1, A2, A3) \dots\}$   
 430 Service Offering  $SO = \{((S1, A1)(A1, A2)), ((S2, A1)(A1, A2)), ((A1, A2)(A2, A3)), \dots\}$